UTILITY

Attorney Docket No. S104.12-0039/STL 11310.00 First Inventor or Application Identifier KokHoe Chia et al.

| Ω | PATENT APPLICATION | Title | REFRESHING DATA IN A DATA STORAGE DEVICE | | | | |
|---|--|--|---|-------------------------|--|--|--|
| | TRANSMITTAL | | ss Mail Label No. EV 178016482 US | AUL DEVICE | | | |
| Only for ne | w non-provisional applications under 37 C.F.R. § 1.53(B)) | | | | | | |
| | APPLICATION ELEMENTS P chapter 600 concerning utility patent application content | Address To: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | | | | | |
| 1. 🗵 | *Fee Transmittal Form e.g., PTO/SB17) (Submit an original and a duplicate for fee processing) | | CD-ROM or CD-R in duplicate, larg Computer program (Appendix) | e table or | | | |
| 2. | Applicant Claims small entity status | ٦. | Nucleotide and/or Amino Acid Sequence Submission A | | | | |
| 3. LAI | Specification [Total Sheets (preferred arrangement set forth below - Descriptive title of the Invention) | 11 | a. Computer Readable Copy | 0.297 0.297 | | | |
| | Cross References to Related Applications Statement Regarding Fed sponsored R & D Reference to Microfiche Appendix Background of the Invention Brief Summary of the Invention | | b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 Copies ii. ☐ Paper | 16 | | | |
| { | - Brief Description of the Drawings (if filed) | | c. Li Statement verifying identity of al | oove copies | | | |
| | - Detailed Description | Į. | ACCOMPANYING APPLICATION I | PARTS | | | |
| | - Claim(s) | ĺ | 9. Assignment Papers (cover sheet & | | | | |
| } | - Abstract of the Disclosure | | 37 C.F.R. § 3.73(b) Statement (when there is an assignee) | Nower of Attorney | | | |
| _ | | , | 11. English Translation Document (if ap | <u></u> . | | | |
| 4. 🗆 | | <u> </u> | 12. Information Disclosure Statement (IDS)/PTO – 1449 | Copies of IDS Citations | | | |
| 5. Oat | h or Declaration [Total Sheets 3 | J) | 13. Preliminary Amendment | | | | |
| а. b. | Newly executed (original or copy) | l | Return Receipt Postcard (MPEP 50 (Should be specifically itemized) | 93) | | | |
| J | Copy from a prior application (37 C.F.R. § 1.63 (for continuation/divisional with Box 18 completed) | (q)) | 15. Certified Copy of Priority Document (if foreign priority is claimed) | (s) | | | |
| | i. <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application | | 16. Nonpublication Request Under 35 to (b)(2)(B)(i). Applicant must attach for or its equivalent | | | | |
| 6 ⊠ | see 37 C.F.R. §§1.63(d)(2) and 1.33(b Application Data Sheet. See 37 CFR 1.76 |). | 17. Other: Notice of Change of Addr | ess | | | |
| 18. If a Co | ONTINUING APPLICATION, check appropriate box, and | supply | he requisite information below and in a preliminary amer | ndment, or in an | | | |
| Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation—in part (CIP) of prior application No: / Prior application information: Examiner Group/Art Unit: FOR CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. | | | | | | | |
| 17. CORRESPONDENCE | | | | | | | |
| Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Or Correspondence address below | | | | | | | |
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| Name (Print/type) Robert M. Angus Registration No. (Attorney/Agent) 24,383 | | | | | | | |

| Name (Print/type) | Robert-M. Angus | Registration No. (Attorney/Ag | gent) | 24,383 |
|-------------------|-----------------|-------------------------------|-------|---------|
| Signature | Kaped MA | | Date | 6/24/03 |

| | | | | | | | | Comple | ete if Knov | vn | |
|--|---|------------------------|------------------------|---------------------------|--|---|-----------------|--|---|--|--|
| FEE TRANSMITTAL | | | | | | | Application No. | | | | |
| | | | | | Filing Date | | | | | | |
| | | | | | | First Named Inventor | | | KokHoe Chia et al. | | |
| | | | | | Title | | | F | REFRESHING DATA IN A DATA STORAGE DEVICE | | |
| | | | | | Group | Group Art Unit | | | | | |
| | | | | | | | Examiner Name | | | | |
| Total Amount of Payment \$ 750 and \$40 | | | | | | Atty. Docket Number \$104.12-0039/STL 11310.00 | | | | | |
| METHOD OF PAYMENT (Check One) | | | | | | FEE CALCULATION (Continued) | | | | | |
| 1. 🗵 Th | e Directo | or is hereb | v authori | zed to char | ge anv additio | nal fee | 3. ADD | ITIONAL | FEES | | |
| The Director is hereby authorized to charge any additional fee required under 37 C.F.R. § 1.16 and 1.17, including any petition fee, and credit any over payments to Deposit Account No. 23-1123. Westman, Champlin & Kelly, P.A. | | | | | Large Fee | Entity Fee | Small Fee | Entity Fee | Fee Description Fee | | |
| 2. ⊠ Checks Enclosed | | | | | | | Code | (\$) | Code | (\$) | , 3.3 |
| | | | | | | | 1051 | 130 | 2051 | 6 | 5 Surcharge - Late filing fee or oath |
| | | FE | CALC | ULATION | 1 | | 1052 | 50 | 2052 | 2 | 5 Surcharge - Late provisional Filing Fee or cover sheet |
| 1. BAS | IC FILI | NG FEE | | | | | 1053 | 130 | 1053 | 130 | 0 Non-English specification |
| Large Entity Small Entity | | | | | | | 1812 | 2,520 | 1812 | 2,520 | For Filing a Request for Reexamination. (ex parte) |
| Fee | Fee | Fee | Fee | | | | 1251 | 110 | 2251 | 5 | 5 Extension for reply within first month |
| <u>Code</u> | <u>(\$)</u> | <u>Code</u> | <u>(\$)</u> | Fee De | scription | | 1252 | 410 | 2252 | 20 | 5 Extension for reply within second month |
| 1001 | 750 | 2001 | 375 | ⊠ Util | ity Filing Fee | | 1253 | 930 | 2253 | 46 | 5 Extension for reply within third month |
| 1002 | 330 | 2002 | 165 | □Desi | gn Filing Fee | | 1254 | 1,450 | 2254 | 72 | 5 Extension for reply within fourth month |
| 1004 | 750 | 2004 | 375 | 5 □Reissue Filing Fee | | 1255 | 1,970 | 2255 | 98 | 5 Extension for reply within fifth month | |
| 1005 | 160 | 2005 | 80 | □Prov | . Filing Fee | | 1402 | 320 | 2402 | 16 | 0 Filing a brief in support of an appeal |
| | | | | | Subtotal | (1) \$ 750 | 1403 | 280 | 2403 | 14 | 0 Request for oral hearing |
| 2. EXTRA CLAIM FEES | | | | | 1814 | 110 | 2814 | 5 | 5 Terminal Disclaimer Fee | | |
| | Numb Claim | | Or** | Extra | Fee from Below | Fee Paid | 1452 | 110 | 2452 | 5 | 5 Petition to Revive - unavoidable |
| Total | 18 | 20 | | 0 | 18 | 0 | 1453 | 1,300 | 2453 | 65 | 0 Petition to Revive - unintentional |
| Indep _: | 3 | 3 | | 0 | 84 | 0 | 1501 | 1,300 | 2501 | 65 | Utility/Reissue issue fee (inc. advance copies) |
| Multiple Dependent Claims | | | | 1502 | 470 | 2502 | 23 | 5 Design issue fee (inc. advance copies) | | | |
| ** Insert 3 and 20, or number previously paid if greater; Reissue see below | | | | | 1460 | 130 | 1460 | 13 | 0 Petitions to the Commissioner | | |
| | intity Fee _(\$) | Small E Fee Code | ntity Fee _(\$)_ | Description | n | | 1807 | 50 | 1807 | 5 | Petitions related to provisional applications |
| 1202 1201 | 18 84 | 2202 2201 | 9 42 | | excess of 20 ent claims in e | xcess of 3 | 1806 | 180 | 1806 | 18 | Submission of Information Disclosure Statement |
| 1203 1204 | 280 84 | 2203 2204 | 140 42 | Multiple De Reissue In | ependent Clai ndependent C | ms | 8021 | 40 | 8021 | 4 | December 1 and a standard and a second asset |
| 1205 | Original Patent 1205 18 2205 9 Reissue claims in excess of 20 and over original patent | | | | | Other F | ee (spec | ify) | | , , , , , , , , , , , , , , , , , , , | |
| Subtotal (2) \$ 0 | | | | | | | | | | | Subtotal (3) \$4 |

Signature

(Robert M. Angus

Reg. No. 24.383

Date Jun 24, 6003

IN THE UNTIED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor : KokHoe Chia et al.

Appln. No.: Filed Herewith

Filed : Filed Herewith

Group Art Unit:

I HEREBY CERTIFY THAT THIS PAPER IS BEING

PATENT ATTORNEY

Examiner:

For

: REFRESHING DATA IN A DATA

STORAGE DEVICE

Docket No.: S104.12-0039/STL 11310.00

NOTICE OF CHANGE OF ADDRESS

| Commissioner for Patents P.O. Box 1450 | SENT BY U.S. MAIL, FIRST CLASS, TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, THIS | | | |
|--|---|--|--|--|
| Alexandria, VA 22313-1450 | , DAY OF, 2003. | | | |

Sir:

Please change the correspondence address of record for all purposes including notices of maintenance fees to:

Kirk A. Cesari SEAGATE TECHNOLOGY LLC Intellectual Property Dept. - SHK2LG 1280 Disc Drive Shakopee, MN 55379-1863

Respectfully submitted,

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: Lout

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RMA/djb